

**Amendments to the Claims**

This listing of the claims replaces all prior versions and listing of the claims in the present application.

**Listing of Claims**

1. (currently amended) A closed single-use system for mixing, storing and homogenizing liquids, comprising:

~~an assembly constituted by~~ a rigid container (1) fitted with a non-invasive pump (4), said container (1) enclosing a generally parallelepipedic single-use bag (2), ~~characterized in that~~

wherein the lower face of the bag includes an orifice for the liquid to discharge to the outside of the bag, the upper face includes an orifice for the liquid to return through which said liquid returns to the inside of the bag,

said orifices [[are]] being connected in fixed manner by ~~means of~~ an external mixing duct (3) which is inserted into the pump (4) which, during operation, allows the closed-circuit circulation of the liquid taken from the bottom of said bag (2), the pump (4) being open so that the mixing duct (3) is insertable into and extractable from the pump ~~can be inserted into it and extracted from it.~~

2. (currently amended) [[A]] The system according to claim 1, ~~characterized in that~~ the wherein a bottom (7) of the container (1) is fitted with an elongated slit (8) allowing the insertion and the passage of the mixing duct (3).

3. (currently amended) [[A]] The system according to claim [[1]]2, ~~characterized in that it includes further comprising~~ a device (20, 27) which can be shifted parallel to the bottom of the container in order to partially close the slit (8).

4. (currently amended) [[A]] The system according to claim 1, ~~characterized in that wherein~~ the container (1) includes one or two side doors (5, 6) in order to allow the installation of the bag (2).

5. (currently amended) A ~~system according to claim 1,~~ characterized in that closed single-use system for mixing, storing and homogenizing liquids, comprising:

a rigid container (1) fitted with a non-invasive pump (4), said container (1) enclosing a generally parallelepipedic single-  
use bag (2);

wherein the lower face of the bag includes an orifice for the liquid to discharge to the outside of the bag, the upper face  
includes an orifice for the liquid to return through which said  
liquid returns to the inside of the bag;

said orifices being connected in fixed manner by an external mixing duct (3) which is inserted into the pump (4) which, during  
operation, allows the closed-circuit circulation of the liquid  
taken from the bottom of said bag (2), the pump (4) being open so  
that the mixing duct (3) is insertable into and extractable from  
the pump,

wherein the container (1) is fitted with a bottom wall

[[ (7) ]] (7') which ~~can be shifted~~ is movable horizontally [[,]] and is fitted with one or more elongated slits.

6. (currently amended) [[A]] The system according to claim 4, ~~characterized in that the flaps of~~ comprising two of the side doors (5, 6) that each has a flap that comprises ~~comprise~~ a vertical U-section, the U-sections having openings facing each other[[,]] and into which a profiled plate (21) is slid and adjusted in order to keep the flaps of the side doors (5, 6) held in the closed position.

7. (currently amended) [[A]] The system according to claim 6, ~~characterized in that the~~ wherein a central part of the profiled and adjusted ~~plated~~ plate (24) is preferably coplanar with the internal surface of the two side doors (5, 6).

8. (currently amended) [[A]] The system according to claim 4, ~~characterized in that the flap of~~ comprising two of the side doors ~~side door~~ (5, 6) that each has a flap that includes a gate (23) fitted with fastenings cooperating with systems provided on the other side door (5, 6) in order to keep said flaps in the closed position.

9. (currently amended) [[A]] The system according to claim 8, ~~characterized in that the~~ wherein a central part (22) of said this gate (23) is coplanar with the internal surface of the two side doors (5, 6) of the container (1).

10. (currently amended) [[A]] The system according to claim 4, ~~characterized in that the flaps of~~ comprising two of the

[[two]] side doors (5, 6) comprise that each has a flap with a U-section, the U-sections having openings being turned away from each other[], and into which a profiled plate is slid and adjusted (24), the plate comprising two U-bends, the openings facing each other, in order to keep the flaps of the side doors (5, 6) in the closed position.

11. (currently amended) [[A]] The system according to claim 10, characterized in that the wherein a central part (22) of the profiled and adjusted plate (24) is coplanar with the two side doors (5, 6) and forms a channel in which the mixing duct (3) can be installed in order to protect it.

12. (currently amended) [[A]] The system according to claim [[4]]1, characterized in that wherein a protection of the mixing duct (3) is integrated in a door (6) of the container that includes a gate flap (25).

13. (currently amended) A method for mixing compounds, comprising the steps of: characterized in that,

installing a single-use bag (2) in a rigid container (1) fitted with a non-invasive pump (4),

connecting lower and upper faces of the [[a]] single-use bag (2) is installed, the lower face and the upper face of which are connected in fixed manner by means of a mixing duct (3),

removably inserting the duct (3) is inserted into the non-invasive pump (4), and

actuating said pump is actuated in order to produce a

closed-circuit circulation of the liquid or liquids introduced into the container (1) in order to carry out the mixing.

14. (currently amended) [[A]] The method according to claim 13, ~~characterized in that~~ wherein the pump (4) causes the mixture to circulate with a flow rate of 6 to 1500 ~~litres~~ liters per minute.

15. (new) The method according to claim 13, wherein the connecting step includes connecting the mixing duct to the upper face of the single-use bag so that the mixing duct discharges directly into an upper-most part of the bag, and connecting the mixing duct to the lower face of the single-use mixing bag so that the mixing duct takes in fluid directly from a lower-most part of the bag opposite the upper-most part.

16. (new) The system according to claim 1, wherein the mixing duct is connected to the upper face of the single-use bag so that the mixing duct discharges directly into an upper-most part of the bag, and wherein the mixing duct is connected to the lower face of the single-use mixing bag so that the mixing duct takes in fluid directly from a lower-most part of the bag opposite the upper-most part.